

### EXPERIMENT 1.1.1 – Area of Circle

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#### Algorithm:

**Start**

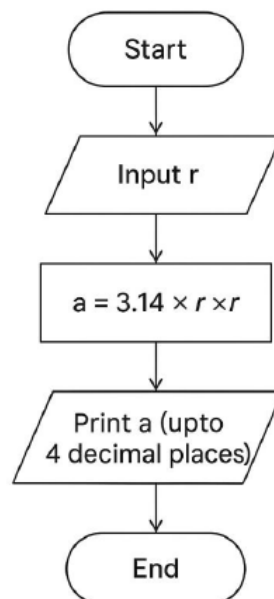
**Input:** Read the radius (r).

**Process:** Calculate the area by multiplying  $3.14 * r * r$ .

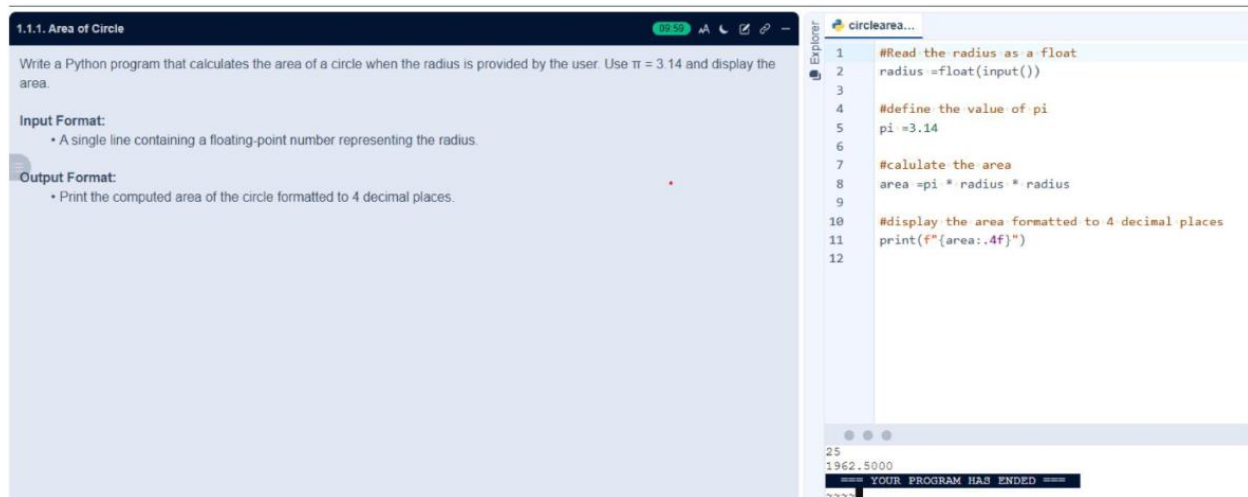
**Output:** Print the result (formatted to 4 decimal places).

**Stop**

#### Flowchart:



## Code:



The screenshot shows a Python IDE with a dark theme. The left pane displays the problem statement for '1.1.1. Area of Circle'. The right pane shows the Explorer with a file named 'circlearea...' and the code editor with the corresponding Python code. The output console at the bottom shows the program's execution results.

**1.1.1. Area of Circle**

Write a Python program that calculates the area of a circle when the radius is provided by the user. Use  $\pi = 3.14$  and display the area.

**Input Format:**

- A single line containing a floating-point number representing the radius.

**Output Format:**

- Print the computed area of the circle formatted to 4 decimal places.

```
1 #Read the radius as a float
2 radius =float(input())
3
4 #define the value of pi
5 pi =3.14
6
7 #calculate the area
8 area =pi * radius * radius
9
10 #display the area formatted to 4 decimal places
11 print(f"{area:.4f}")
12
```

25  
1962.5000  
==== YOUR PROGRAM HAS ENDED ====